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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,099	07/08/2003	Larry V. Dalrymple	104-30537	8650
75	90 12/13/2004		EXAM	INER
James E. Bradley			NGUYEN, TRAN N	
BRACEWELL & PATTERSON, LLP P.O. Box 61389			ART UNIT	PAPER NUMBER
Houston, TX 77208-1389			2834	
		DATE MAILED: 12/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		r				
	Application No.	Applicant(s)				
	10/615,099	DALRYMPLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tran N. Nguyen	2834				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>25 October 2004</u> .						
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) ☐ Claim(s) 1-12 and 19-21 is/are pending in the application. 4a) Of the above claim(s) 13-18 is/are withdrawn from consideration. 5) ☐ Claim(s) 8-12 and 19-21 is/are allowed. 6) ☒ Claim(s) 1,2 and 5-7 is/are rejected. 7) ☐ Claim(s) 3 and 4 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
<u> </u>	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
200 the attached detailed Office action for a list	. Of the certified copies not receive	. .				
Attachment(s)	·					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Election/Restriction

1. Applicant's election of claims 1-12, per response filed 6/14/04, is acknowledged. Since Applicant did not provide any traversal arguments to the restriction requirement, the response is considered as election without traverse; therefore, the election/restriction is made FINAL.

Withdraw Claim Rejections - 35 USC § 112

2. Claims 2-3 and 8 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The rejections are hereby withdrawn in light of the applicant's remark regarding the term "nonmeltable" and "meltable", as filed on 10/25/04.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-2, 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubokawa (US 6,176,691) in view of Beckman (US 5,306,976).

Regarding claims 1-2 and 5, Tsubokawa discloses a motor comprising:

- a housing (1);
- a stator having slots that form passages;

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a dielectric film (10) inserted within each of the passages defining a sealed outer margin; and a plurality of windings (11) inserted there through, wherein the dielectric film is nonmeltable (10A) and is bonded to a carrier layer of a meltable material (10B). In other words, the dielectric film is composed of inner slot insulation film (10A) and the outer carrier layer (10B), wherein dielectric film (10A) has the characteristic of temperature withstand of 160 C degrees (table 1), which is considered to be nonmeltable, while the carrier layer (10B) has the characteristic of temperature withstand of 105 C degrees (table 1), which is considered to be meltable. That means the carrier layer (10B) fuses the dielectric film (10A) when a melting temperature is applied to the carrier layer.

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Tsubokawa substantially discloses the claimed invention, except for the following limitations:

The stator is discs laminated core;

dielectric film is configured as a tube, wherein the slots have side edges that are straight and outer edges that are curved, and wherein the tubes have portions that are substantially flush with the side edges and the outer edges.

Beckman, however, teaches a motor having a stator core (115) is a stack of steel laminations, i.e., laminated core that is quite well-known in the art. Beckman, particularly teaches the dielectric film (302) is configured as a slot liner tube (fig 3), wherein the tube have side edges that are straight and outer edges that are curved, and wherein the tubes have portions that are substantially flush with the side edges and the outer edges. As shown in fig 3 slot liner tube (302) is to be disposed in slot (204) between stator core (115) and winding stage (122) and is substantially coterminous with the slot at the longitudinal ends (118, 119) of the slot. Slot liner tube (302) has a transverse wall 305 and opposing side walls (308A, 308B) projecting outwardly from opposite edge margins of the transverse wall 305. The side walls (308A-B) and transverse wall (305) of the slot liner tube are substantially coterminous with the opposing surfaces (210A-B) and bottom wall (213) defining the slot, respectively. Slot liner tube (302) also includes a the end(311A-B) overlap edges bonded together. Beckman's laminated core would enhance electrical resistant characteristics of the core, and the slot liner tube configuration would enable the tube to be cuffless while having substantially same shape with the slot.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the stator by configuring the core as laminated core and the slot liner as a tube, as taught by Beckman. Doing so would enhance the stator core performance by increasing electrical resistance due to laminated core, and improve the slot lining for insulating the winding from the slot with enhance slot liner tube.

Regarding the size and thickness of the tube, as recited in claims 6-7, Beckman teaches to form the slot lining tube that takes substantially the same shape and that snuggly fitted in the slot. This would yield the tube's cross-sectional area and circumference to be the same with that of the slot.

Nevertheless, it would have been obvious to one skilled in the art at the time the invention was made to modify the stator's slot lining tube by configure the size/shape thereof so that it has the cross-sectional area or the circumference that is substantially equal to that of the slot, or the determine a suitable thickness of the slot lining tube based upon the size and shape of the winding being accommodated within the slot. Such modification has been held that a change in size or shape is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955) (emphasis added).

Allowable Subject Matter

Claims 3-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 8-12 and 19-21 are allowed.

Response to Arguments

Applicant's arguments filed 10/25/04 have been fully considered and found as following: the applicant argues that "carrier film 35 is fused to dielectric film 31 to retain dielectric film 31 in the shape of a tube. Carrier film 35 may be of a variety of types of thermoplastic that melts

and fuse. When strips of dielectric film 31 and canier film 35 are placed against each other and spiral-wound to create overlapping edges, heat can be applied to the overlapping edges to cause sufficient melting of the carrier film 35 to fuse to the dielectric film 31."

In response to this argument, the Examiner concurs with the applicant's remark. As a result, claims 3-4, 8-12 and newly added claims 19-21 are indicated as allowable.

However, regarding claims 1-2 and 5-7, the claims do not include the limitation of a carrier layer of ametable material. It is noted that the features upon which applicant relies (i.e., carrier layer) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The claimed language is broadly read on the combination of the Tsubokawa (US 6,176,691) in view of Beckman (US 5,306,976). Therefore, the rejections against claims 1-2 and 5-7 are maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tran N. Nguyen

Primary Examiner

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